Human HTT Protein, MBP,His Tag (MALS verified)

Catalog # HTT-H51M5

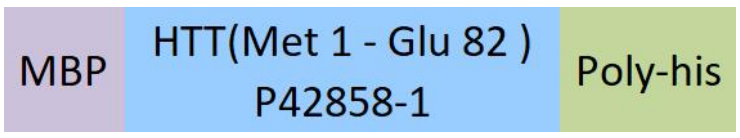
Synonym

HTT,Htt,Huntingtin

Source

Human HTT, MBP,His Tag(HTT-H51M5) is expressed from E.coli cells. It contains AA Met 1 - Glu 82 (Accession # P42858-1).
Predicted N-terminus: Met

Molecular Characterization



This protein carries a MBP tag at the N-terminus and a polyhistidine tag at the C-terminus

The protein has a calculated MW of 52.7 kDa. The protein migrates as 60-63 kDa under reducing (R) condition (SDS-PAGE) .

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 20 mM HEPES, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

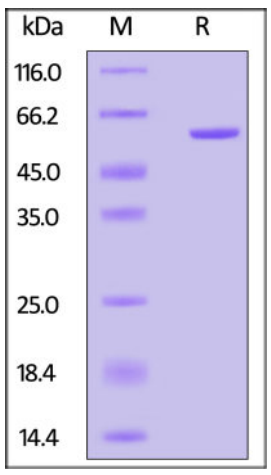
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

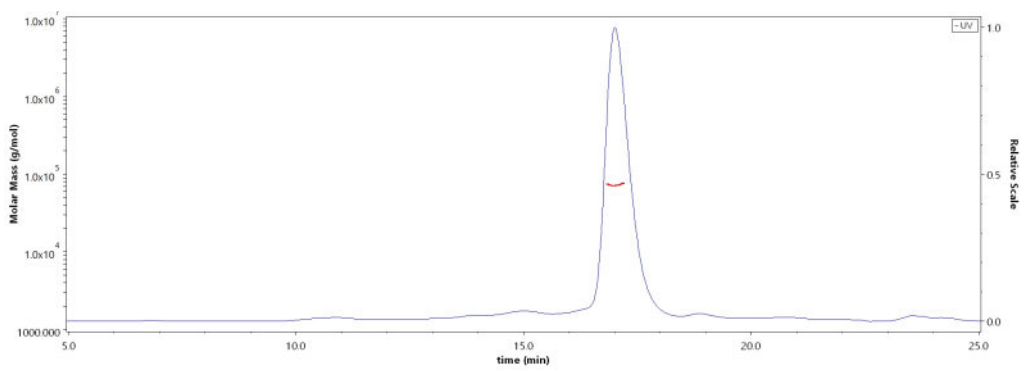
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human HTT, MBP,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human HTT, MBP,His Tag (Cat. No. HTT-H51M5) is more than 85% and the molecular weight of this protein is around 62-80 kDa verified by SEC-MALS.
Report

Background

Huntingtin is the protein coded for by the HTT gene. Autosomal dominant mutation in the Huntingtin (Htt) protein is the cause of Huntington's Disease (HD). In HD, the polyglutamine (polyQ) domain in the N-terminal sequenceof the protein is expanded beyond a threshold of 36 glutamines. mutant polyQ expansion strongly correlates in an inverse manner to disease age of onset.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.